

MESOSCALE DISCUSSION 1550

NWS STORM PREDICTION CENTER NORMAN OK  
1132 AM CDT MON JUL 23 2012

AREAS AFFECTED...NERN PA INTO MUCH OF NY...VT...WRN MA/CT

CONCERNING...SEVERE POTENTIAL...WATCH POSSIBLE

VALID 231632Z - 231800Z

PROBABILITY OF WATCH ISSUANCE...60 PERCENT

SUMMARY...STORMS SHOULD INCREASE IN COVERAGE THROUGH THE  
AFTERNOON...WITH LOCALIZED SEVERE WIND AND HAIL.

DISCUSSION...VISIBLE IMAGERY SHOWS CU INCREASING ACROSS THE ENTIRE  
REGION...WHERE STRONG HEATING WAS OCCURRING. MUCH OF THE CU WAS  
FOCUSED WITHIN A BROAD SURFACE TROUGH EXTENDING FROM CNTRL NY INTO  
CNTRL/ERN PA. MODIFIED MORNING SOUNDINGS INDICATE CIN HAS BEEN  
DIMINISHED AND MUCAPE ON THE ORDER OF 2500 J/KG EXISTS WITH DECENT  
PARCEL ACCELERATION THROUGH THE PROFILE. SHEAR PROFILES ARE  
CURRENTLY WEAK...BUT THE DEGREE OF MOISTURE AND INSTABILITY...AS  
WELL AS MARGINAL SHEAR...SUGGEST THAT A FEW STORMS MAY BECOME  
SEVERE...WITH LOCALLY SEVERE WIND GUSTS AS WELL AS MARGINAL HAIL.

..JEWELL/HART.. 07/23/2012

ATTN...WFO...BOX...BTV...OKX...ALY...PHI...BGM...BUF...CTP...